PTO/SB/21 (02-04) (AW 02/2004)
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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 39

Application Number	10/727,939	
Filing Date	December 03, 2003	
First Named Inventor	Wen-Bin YAN	
Art Unit		
Examiner Name		
Attorney Docket No.	TGR-106US	

		
E	NCLOSURES (Check all that apply)	y)
Fee Transmittal Form Fee Attached	☐ Drawing(s) ☐ Licensing-related Papers	After Allowance Communicati to Group
Amendment/Reply After Final Affidavits/Declaration(s) Extension of Time Request Express Abandonment Request Information Disclosure Statement Certified Copy of Priority Document(s) Response to Missing Parts/Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53	Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation, Change of Correspondence Address Terminal Disclaimer Request for Refund CD, Number of CD(s) Remarks:	Appeal Communication to Boo of Appeals and Interferences Appeal Communication to Gro (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identify below: Return Postcard 6 References
SIGNATURE	OF APPLICANT, ATTORNEY OR AG	GENT
Firm or Individual Jacques L. Etkowicz Name Signature	Registration No. (Attorney/Ag	Agent) 41,738
Date March 12, 2004		
CERTIF	ICATE OF TRANSMISSION / MAILING	G
I hereby certify that this correspondence is being facsimile postage as first class mail in an envelope addressed to: C	transmitted to the USPTO or deposited with the Uommissioner for Patents, P.O. Box 1450, Alexandr	United States Postal Service with sufficient dria, VA 22313-1450 on this date:
Typed or printed name Kathleen Carney	0	
Signature Kathlew	arney	Date March 12, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 US.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

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TGR-106US PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No:

10/727,939

Applicant:

Wen-Bin Yan

Filed:

December 3, 2003

Title:

APPARATUS AND METHOD FOR IMPROVED ANALYSIS OF LIQUIDS BY

CONTINUOUS WAVE-CAVITY RING DOWN SPECTROSCOPY

TC/A.U.: Examiner:

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO 1449 (R&P) submitted herewith. A copy of each of the listed non-patent references is also enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

TGR-106US PATENT

This Information Disclosure Statement is being filed before mailing of the first Official Action. No first Official Action has yet been received and it is presumed that none has yet been mailed. No fee or statement is required. 37C.F.R. § 1.97(b).

Respectfully submitted,

RatnerPrestia

Jacques L. Etkowicz, Reg. No. 41,738

Attorney for Applicant

JLE/kc

Enclosures: PTO Form 1449

(6) References Transmittal

Dated: March 12, 2004

P.O. Box 980 Valley Forge, PA 19482 (610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **18-0350** of any fees associated with this communication..

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Marchy12, 2004

Kathleen Carney

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PTO/SB/08A (AW 4/25/03) (04-03)
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Substitute of Form 1449/ATT	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 of 2

	Complete if Known	
Application Number	10/727,939	
Filing Date	December 03, 2003	
First Named Inventor	Wen-Bin Yan	
Art Unit		
Examiner Name		
Attorney Docket No.	TGR-106US	

			U.S. PATENT D	OCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	No.1	Number - Kind Code ^{2 (if known)}	(MM-DD-YYYY)	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		US-5,528,040	06/18/1996	Lehmann	Entire Document
		US-5,973,864	10/26/1999	Lehmann et al.	Entire Document
		US-6,040,915	03/21/00	Wu et al.	Entire Document
		US-6,466,322 B1	10/15/2002	Paldus et al.	Entire Document
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Evaminas	Cite	Foreign Patent Document	Dublication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	No.1	Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date (MM-DD-YYYY)	Applicant of Cited Document	Passages or Relevant Figures Appear	Т
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Examiner	Date	
Signature	Considered	

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Applicant's unique citation designation number (optional).

See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

See Kind Codes of USPTO Patent Documents, by the two-letter code (WIPO Standard St.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.
Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

PTO/SB/08b (08-03) (AW 10/2003) Approved for use through 6/30/2006. OMB 0651-0031

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Substitute for Form 1449B/PTO		Complete if Known
	Application Number	10/727,939
INFORMATION DISCLOSURE	Filing Date	December 3, 2003
STATEMENT BY APPLICANT	First Named Inventor	Wen-Bin Yan
(Use as many sheets as necessary)	Art Unit	
	Examiner Name	
SHEET 2 of 2	Attorney Docket No.	TGR-106US

		NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		RICHARD ENGELN and GIEL BERDEN, "Cavity Ring Down Absorption Spectroscopy", May 22, 2001, pages 1-9	
		RICHARD ENGELN and GERARD MEIJER, "A Fourier Transform Cavity Ring Down Spectrometer", Rev. Sci, Instrum. 67,2708 (1996), Dept. of Molecular and Laser Physics, University of Nijmegen, pages 1-7	
		A.J. HALLOCK, E.S.F. BERMAN, and R.N. ZARE, "Use of Broadband, Continuous-Wave Diode Lasers in Cavity Ring-Down Spectroscopy for Liquid Samples", January 10, 2003, Applied Spectroscopy, Vol. 57, No. 5. 2003, pages 571-573	
		ALEXANDER J. HALLOCK, ELENA S.F. BERMAN, AND RICHARD N. ZARE, "Ultratrace Kinetic Measurements of the Reduction of Methylene Blue", August 13, 2002, J. AM. CHEM. SOC. Vol. 125, No. 5. 2003, pages 1158-1159	
		K. J. SCHULZ and W. R. SIMPSON, "Frequency-Matched Cavity Ring-Down Spectroscopy", Chem. Phys. Lett. October 14, 1998, Geophysical Institute and Chemistry Department, University of Alaska Fairbanks, pages 1-9, Figure 1	
		"Use of Broadband Light Source for CRDS", Office of Technology Licensing, Stamford University, Stamford Reference S02-221, 3 pages	
Examiner Signature	Ţ	Date Considered	

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